

**NAME OF WORK : IMPROVEMENTS TO ROADS
AND DRAINS AT MARIYANNAPALYA,
MUNIKEMPANNA LAYOUT,
BHUVANESHWARINAGRA, DASARAHALLI
BALANCE ROADS AND SURROUNDING AREA IN
WARD NO.06 BYATARAYANAPURA SUB
DIVISION.**

EMB

Second and Final Bill

Pre-Measurement Sheet

(Book No.02)

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagra, Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Byatarayanapura Sub Division

PRE MEASUREMENT SHEET

Chainage		Second And Final											
From	To	Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remark		
					(m)	B1	B2	Avg B	(m)				
Item no.01		Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer-in-charge of the work											
Measurements taken on													
		Quantity Measured in 1st RA Bill											
		Bhuvaneshwari Nagar											
		20th R Cross Road (W/O/61)											
		RHS											
00	15 (0)	Culvert	Cum	1	15.00	0.95	0.95	0.95	0.90	12.83			
00	30 (0)			1	15.00	0.95	0.95	0.95	0.90	12.83			
00	45 (0)			1	15.00	0.95	0.95	0.95	0.90	12.83			
00	47.50			1	2.50	0.95	0.95	0.95	0.90	2.14			
50	53 (0)			1	0.00	0.95	0.95	0.95	0.90	0.00			
00	65 (0)			1	12.00	0.95	0.95	0.95	0.90	10.26			
00	80 (0)			1	15.00	0.95	0.95	0.95	0.90	12.83			
00	95 (0)			1	15.00	0.95	0.95	0.95	0.90	12.83			
00	99.70			1	4.70	0.95	0.95	0.95	0.90	4.02			
00	112 (0)			1	12.30	0.95	0.95	0.95	0.90	10.52			
00	125 (0)	Culvert	Cum	1	13.00	0.95	0.95	0.95	0.90	11.12			
00	140 (0)			1	15.00	0.95	0.95	0.95	0.90	12.83			
00	155 (0)			1	15.00	0.95	0.95	0.95	0.90	12.83			
00	159.90			1	4.90	0.95	0.95	0.95	0.90	4.19			
		LHS											
0	15 (0)	Culvert		Cum	1	15.00	0.95	0.95	0.95	0.90	12.83		
00	30 (0)				1	15.00	0.95	0.95	0.95	0.90	12.83		
00	40.50				1	10.50	0.95	0.95	0.95	0.90	8.98		
00	55 (0)				1	14.50	0.95	0.95	0.95	0.90	12.40		
00	65.50				1	10.50	0.95	0.95	0.95	0.90	8.98		
00	70.70				1	0.00	0.95	0.95	0.95	0.90	0.00		
00	85.00				1	14.30	0.95	0.95	0.95	0.90	12.23		
00	100.00				1	15.00	0.95	0.95	0.95	0.90	12.83		
00	111.80				1	11.80	0.95	0.95	0.95	0.90	10.09		
00	116.90				No Work	1	20.00	0.95	0.95	0.95	0.90	0.00	
00	130.00	Culvert		Cum	1	13.10	0.95	0.95	0.95	0.90	11.20		
00	144.50				1	14.50	0.95	0.95	0.95	0.90	12.40		
00	148.70				No Work	1	0.00	0.95	0.95	0.95	0.90	0.00	
00	164.30				1	15.60	0.95	0.95	0.95	0.90	13.34		
		Near Dasarahalli Circle											
		West to East											
15.00					1	15.00	1.00	1.00	1.00	1.50	22.50		
27.70					1	12.70	1.00	1.00	1.00	1.50	19.05		
42.70					1	15.00	1.30	1.30	1.30	1.50	29.25		
57.70					1	15.00	1.30	1.30	1.30	1.50	29.25		
72.70					1	15.00	1.30	1.30	1.30	1.50	29.25		
87.70					1	15.00	1.30	1.30	1.30	1.50	29.25		
102.70					1	15.00	1.30	1.30	1.30	1.50	29.25		
117.70					1	15.00	1.30	1.30	1.30	1.50	29.25		
132.70					1	15.00	1.30	1.30	1.30	1.53	29.84		

3017.47



Director

Assistant Engineer

Assistant Executive Engineer

(Ward No 06)

Second and Final Bill

2

47.70		1	15.00	1.30	1.30	1.30	1.53	29.84	
55.00		1	7.30	1.30	1.30	1.30	1.53	14.52	
	Culvert								
	20th R Cross Road	1.00	4.35	1.40	1.40	1.40	0.80	4.87	49.23
Total Executed Quantity								3066.70	
Qty Carried to Summary								3066.70	

G. of P. D.

18.05.2017

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಎ. ಮೈಸೂರು-14

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಮೈಸೂರು-14
ಬಿ.ಬಿ.ಎಂ.ಎ. ಮೈಸೂರು-14



STATE OF WORK:- Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagra, Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Byatarayanapura Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

PRE MEASUREMENT SHEET

PRE MEASUREMENT SHEET										
Second And Final										
Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remark	
			(m)	B1	B2	Avg B	(m)			
Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift complete as per specifications and directions of the Engineer in charge										
Near Dasarahalli Circle West to East										
15.00	Cum	1	15.00	1.00	1.00	1.00	0.25	3.75		
27.70		1	12.70	1.00	1.00	1.00	0.25	3.18		
42.70		1	15.00	1.30	1.30	1.30	0.25	4.88		
57.70		1	15.00	1.30	1.30	1.30	0.25	4.88		
72.70		1	15.00	1.30	1.30	1.30	0.25	4.88		
87.70		1	15.00	1.30	1.30	1.30	0.25	4.88		
102.70		1	15.00	1.30	1.30	1.30	0.25	4.88		
117.70		1	15.00	1.30	1.30	1.30	0.25	4.88		
132.70		1	15.00	1.30	1.30	1.30	0.25	4.88		
147.70		1	15.00	1.30	1.30	1.30	0.25	4.88		
155.00	1	15.00	1.30	1.30	1.30	0.25	4.88			
Total Executed Quantity								48.30		
Qty Carried to Summary								48.30		

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagra, Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Byatarayanapura Sub Division

PRE MEASUREMENT SHEET

Second And Final

Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remark
From	To				(m)	B1	B2	Avg B	(m)		
Item no.04		Providing and laying Plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @ 0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications and as per the directions of the Engineer-in-charge of the work									
Measurements taken on		22.05.2023									
		Quantity Measured in 1st RA Bill								439.50	
		Bhuvaneshwari Nagar									
		20th R Cross Road (W0961)									
		RHS									
1.00	15.00		Cum	1	15.00	0.95	0.95	0.95	0.15	2.14	
5.00	30.00			1	15.00	0.95	0.95	0.95	0.15	2.14	
0.00	45.00			1	15.00	0.95	0.95	0.95	0.15	2.14	
5.00	47.50			1	2.50	0.95	0.95	0.95	0.15	0.36	
7.50	53.00	Culvert		1	0.00	0.95	0.95	0.95	0.15	0.00	
3.00	65.00			1	12.00	0.95	0.95	0.95	0.15	1.71	
5.00	80.00			1	15.00	0.95	0.95	0.95	0.15	2.14	
0.00	95.00			1	15.00	0.95	0.95	0.95	0.15	2.14	
5.00	99.70			1	4.70	0.95	0.95	0.95	0.15	0.67	
9.70	112.00			1	12.30	0.95	0.95	0.95	0.15	1.75	
12.00	125.00			1	13.00	0.95	0.95	0.95	0.15	1.85	
15.00	140.00			1	15.00	0.95	0.95	0.95	0.15	2.14	
10.00	155.00			1	15.00	0.95	0.95	0.95	0.15	2.14	
15.00	159.90			1	4.90	0.95	0.95	0.95	0.15	0.70	
		LHS									
1.00	15.00			1	15.00	0.95	0.95	0.95	0.15	2.14	
5.00	30.00			1	15.00	0.95	0.95	0.95	0.15	2.14	
0.00	40.50			1	10.50	0.95	0.95	0.95	0.15	1.50	
0.50	55.00			1	14.50	0.95	0.95	0.95	0.15	2.07	
5.00	65.50			1	10.50	0.95	0.95	0.95	0.15	1.50	
5.50	70.70	Culvert		1	0.00	0.95	0.95	0.95	0.15	0.00	
0.70	85.00			1	14.30	0.95	0.95	0.95	0.15	2.04	
5.00	100.00			1	15.00	0.95	0.95	0.95	0.15	2.14	
10.00	111.80			1	11.80	0.95	0.95	0.95	0.15	1.68	
11.80	116.90	No Work		1	0.00	0.95	0.95	0.95	0.15	0.00	
16.90	130.00			1	13.10	0.95	0.95	0.95	0.15	1.87	
30.00	144.50			1	14.50	0.95	0.95	0.95	0.15	2.07	
14.50	148.70	No Work		1	0.00	0.95	0.95	0.95	0.15	0.00	
18.70	164.30			1	15.60	0.95	0.95	0.95	0.15	2.22	
		Near Dasarahalli Circle									
		West to East									
1.00	15.00			1	15.00	1.00	1.00	1.00	0.15	2.25	
5.00	27.70			1	12.70	1.00	1.00	1.00	0.15	1.91	
7.70	42.70			1	15.00	1.30	1.30	1.30	0.15	2.93	
2.70	57.70			1	15.00	1.30	1.30	1.30	0.15	2.93	
7.70	72.70			1	15.00	1.30	1.30	1.30	0.15	2.93	
2.70	87.70			1	15.00	1.30	1.30	1.30	0.15	2.93	
7.70	102.70			1	15.00	1.30	1.30	1.30	0.15	2.93	
2.70	117.70			1	15.00	1.30	1.30	1.30	0.15	2.93	
7.70	132.70			1	15.00	1.30	1.30	1.30	0.15	2.93	



6 of 1
Contact

22.05.2023
ಸಹಾಯಕ ಪ್ರಮಾಣೀಕರಣ

ಶಿ.ಸಂ.2 ಮುಖಾಂತರವಾಗಿ ಸಹಾಯಕ

507.48

Assistant Engineer

Assistant executive Engineer

7.70			1	15.00	1.30	1.30	1.30	0.15	2.93
5.00			1	7.30	1.30	1.30	1.30	0.15	1.42
	For Kerb PCC								
	1st Main 3rd Cross Road								
	(South to North)	Cum							
20			1	7.20	0.20	0.20	0.20	0.10	0.14
1.40	No Work		1	0.00	0.20	0.20	0.20	0.10	0.00
2.00			1	5.60	0.20	0.20	0.20	0.10	0.11
1.90	No Work		1	0.00	0.20	0.20	0.20	0.10	0.00
1.40			1	9.50	0.20	0.20	0.20	0.10	0.19
	2nd Main Road (W0616)								
	(East to West)								
	LHS								
5.00			1	15.00	0.20	0.20	0.20	0.10	0.30
3.10			1	8.10	0.20	0.20	0.20	0.10	0.16
6.80	No Work		1	0.00	0.20	0.20	0.20	0.10	0.00
3.00			1	6.20	0.20	0.20	0.20	0.10	0.12
6.30	No Work		1	0.00	0.20	0.20	0.20	0.10	0.00
1.30			1	5.00	0.20	0.20	0.20	0.10	0.10
	Culvert								
	20th R Cross Road	Cum	1	4.35	1.40	1.40	1.40	0.15	0.91
Total Executed Quantity									513.87
Qty Carried to Summary									513.87

G. S. S. S.

22.05.2023

ಸಹಾಯಕ ಅಭಿಯಂತರರು
 ರಿ. 20 ನೆ. ಮುಖಾಂತರ ಹಸಿ ಎಲಾನ್.



ಸಹಾಯಕ ಅಭಿಯಂತರರು
 ಬ್ಯಾಟಲಿಯನ್‌ನವರು ಹಸಿ ಎಲಾನ್
 ರಿ. 20 ನೆ. ಮುಖಾಂತರ - 24



147.70			1	15.00	1.30	1.30	1.30	0.15	2.93	
155.00			1	7.30	1.30	1.30	1.30	0.15	1.42	
For Kerb PCC										
1st Main 3rd Cross Road										
(South to North)										
7.20		Cum	1	7.20	0.20	0.20	0.20	0.10	0.14	
13.40	No Work		1	0.00	0.20	0.20	0.20	0.10	0.00	
19.00			1	5.60	0.20	0.20	0.20	0.10	0.11	
20.90	No Work		1	0.00	0.20	0.20	0.20	0.10	0.00	
30.40			1	9.50	0.20	0.20	0.20	0.10	0.19	
2nd Main Road (W0616)										
(East to West)										
LHS										
15.00			1	15.00	0.20	0.20	0.20	0.10	0.30	
23.10			1	8.10	0.20	0.20	0.20	0.10	0.16	
26.80	No Work		1	0.00	0.20	0.20	0.20	0.10	0.00	
33.00			1	6.20	0.20	0.20	0.20	0.10	0.12	
36.30	No Work		1	0.00	0.20	0.20	0.20	0.10	0.00	
41.30			1	5.00	0.20	0.20	0.20	0.10	0.10	
Culvert										
20th R Cross Road										
		Cum	1	4.35	1.40	1.40	1.40	0.15	0.91	6.39
Total Executed Quantity									513.87	
Qty Carried to Summary									513.87	

G ofit d

22.05.2023

ಸಹಾಯಕ ಅಭಿಯಂತರರು
08.05.2023 ರಲ್ಲಿ ಪರಿಶೀಲಿಸಿದ ಮೇರೆಗೆ



ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟಲಿಯನ್ ಮಹಾರಾಜರ ಹೆಸರಿನಲ್ಲಿ
ಮಾನ್ಯತೆ ಪಡೆದವರು-24



BRUHAT BANGALORE MAHANAGARA PALIKE
AMENDMENT WORK:- Improvements to Roads and Drains at Mariyannapalya, Manikempanna Layout,
Hebbal, Marriyanna, Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Hyattarayanapura Sub Division

PRE MEASUREMENT SHEET

Second And Final

STEEL CALCULATION

Sl. NO	Description	No.	BAR DIA mm	No. Bars	Total No. bars	Length m	Total Length m	Weight kg/m	Total weight Kg's
1	Providing TMT steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per the directions of the Engineer in charge								

Measurements Taken On; **25.05.2023**

Present Bill Measurements									
20th R Cross Road (W0961)									
RIIS									
Main Bars (#10@100 c/c)	1	10	1544	1544	2.25	3474.00	0.62	2141.85	
Distribution(15-#8)	1	8	15	15	154.40	2316.00	0.39	913.86	
LHS									
Main Bars (#10@100 c/c)	1	10	1498	1498	2.25	3370.50	0.62	2078.04	
Distribution(15-#8)	1	8	15	15	149.80	2247.00	0.39	886.63	
Near Dasarahalli Circle									
West to East									
Main Bars (#12@100 c/c)	1	12	1550	1550	3.20	4960.00	0.89	4403.56	
Distribution(23-#10)	1	10	23	23	155.00	3616.67	0.62	2229.81	
QTY IN KG'S								12653.75	
QTY IN TONNE								12.65	
For Culvert									
20th R Cross Road									
12# @120 c/c main bars	1	12	36	36	4.50	163.13	0.89	144.82	
10# @150 c/c Distrubution bars	1	10	30	30	4.55	130.50	0.62	80.46	
QTY IN KG'S								225.28	
QTY IN TONNE								0.23	
TOTAL QTY IN KG'S								12879.03	
TOTAL QTY IN TONNE								12.88	

ಪ್ರಾಂಶುಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
 ಪ್ರಾ.ಪ.ರಾಯನಪುರ ಉಪ ವಿಭಾಗ
 ಬಿ.ಬಿ.ಎ.ಕೆ. ಬೆಂಗಳೂರು-74



ಪ್ರಾಂಶುಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
 25.05.2023
 Assistant Engineer

ಪ್ರಾಂಶುಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
 25.05.2023
 Assistant Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE
WORK:- Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagra, Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Byatarayanapura Sub Division

Second And Final

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬಾ.ಬಿ.ಎಂ.ಪಿ. ಬಾ.ಬಿ.ಎಂ.ಪಿ. ಬಾ.ಬಿ.ಎಂ.ಪಿ.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಾನಪರ
ಬ್ಯಾಟಲಿಯನ್‌ಮೆರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಎ. ಮಂಗಳೂರು-೨೨



Assistant Engineer

Assistant executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE
NAME OF WORK:- Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagra,
Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Byatarayanapura Sub Division
PRE MEASUREMENT SHEET

Chainage		Description of Item	Unit	No	Second And Final			Depth (m)	Quantity	Remark	
From	To				Length (m)	Breadth					
Item no 13		Compaction of original ground by mechanical means including filling in depression occurring during rolling including cost of all labour, HOM complete as per specifications and directions of the Engineer in charge.									
Measurements taken on		21.05.2023									
		Quantity Measured in 1st RA Bill								8619.40	
		Munikemmpama Layout									
		1st Cross Road (W0973)									
		From South to North									
0.00	15.00	Sqm	1	15.00	5.30	6.00	5.65	84.75			
5.00	30.00		1	15.00	6.00	5.70	5.85	87.75			
0.00	45.00		1	15.00	5.70	5.85	5.78	86.63			
5.00	60.00		1	15.00	5.85	5.45	5.65	84.75			
0.00	73.10		1	13.10	5.45	5.95	5.70	74.67			
		For CC Road									
		Vishwarathna #951 House Beside Road									
		(East To West)									
0.00	15.00		1	15.00	5.20	5.70	5.45	81.75			
5.00	30.00		1	15.00	5.70	6.00	5.85	87.75			
0.00	37.80		1	7.80	6.00	6.30	6.15	47.97			
		Sri Laxmi Narayana opp Road									
		(South To North)									
0.00	15.00		1	15.00	2.70	2.20	2.45	36.75			
5.00	16.90		1	1.90	2.20	2.15	2.18	4.13			
6.90	36.00		1	19.10	2.45	2.90	2.68	35.04			
0.00	45.00		1	15.00	2.90	2.85	2.88	43.13			
5.00	60.00		1	15.00	2.85	2.85	2.85	42.75			
0.00	61.50		1	1.50	2.85	2.80	2.83	4.24			
		7 star Multi Cuisine Beside Road									
		(South To North)									
0.00	15.00		1	15.00	3.55	3.25	3.40	51.00			
5.00	30.00		1	15.00	3.25	3.10	3.18	47.63			
0.00	34.70		1	4.70	3.10	2.80	2.95	13.87			
		DEDUCTION									
		Chambers									
		Manhole 0.75dia									
		(3.14*0.75*0.75)/4=0.44									

NAME OF WORK:- Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagra, Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Hyattarayanapura Sub Division

PRE MEASUREMENT SHEET

Second And Final

Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remark	
From	To				(m)	B1	B2	Avg B	(m)			
Item no.14		Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications and directions of the Engineer in charge.										
Measurements taken on		05.06.2023										
		Quantity Measured in 1st RA Bill									1292.91	
		Munikemmpama Layout										
		1st Cross Road (W0973)										
		From South to North										
00	15.00		Cum	1	15.00	5.30	6.00	5.65	0.15	12.71		
00	30.00			1	15.00	6.00	5.70	5.85	0.15	13.16		
00	45.00			1	15.00	5.70	5.85	5.78	0.15	12.99		
00	60.00			1	15.00	5.85	5.45	5.65	0.15	12.71		
00	73.10			1	13.10	5.45	5.95	5.70	0.15	11.20		
		For CC Road										
		Vishwarathna #951 House Beside Road										
		(East To West)										
00	15.00			1	15.00	5.20	5.70	5.45	0.15	12.26		
00	30.00			1	15.00	5.70	6.00	5.85	0.15	13.16		
00	37.80			1	7.80	6.00	6.30	6.15	0.15	7.20		
		Sri Laxmi Narayana opp Road										
		(South To North)										
00	15.00			1	15.00	2.70	2.20	2.45	0.15	5.51		
00	16.90			1	1.90	2.20	2.15	2.18	0.15	0.62		
00	30.00			1	13.10	2.45	2.90	2.68	0.15	5.26		
00	45.00			1	15.00	2.90	2.85	2.88	0.15	6.47		
00	60.00			1	15.00	2.85	2.85	2.85	0.15	6.41		
00	61.50			1	1.50	2.85	2.80	2.83	0.15	0.64		
		7 star Multi Cuisine Beside Road										
		(South To North)										
00	15.00			1	15.00	3.55	3.25	3.40	0.15	7.65		
00	30.00			1	15.00	3.25	3.10	3.18	0.15	7.14		
00	34.70			1	4.70	3.10	2.80	2.95	0.15	2.08		
		DEDUCTION										
		Chambers										
				-10	0.45	0.45	0.45	0.45	0.15	-0.30		
		Manhole 0.75dia										
				-3	0.44				0.15	-0.20		
		(3.14*0.75*0.75)/4=0.44										
				-4	0.45	0.45	0.45	0.45	0.15	-0.12		
Total Executed Quantity										1429.47		
Qty Carried to Summary										1429.47		

G. H. J. de

05-06-2023
ಸಹಾಯಕ ಅಭಿಯಂತರರು
05.06.2023

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಲಿವಾಡನಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
05.06.2023 ದಿನಾಂಕ-24



Assistant Engineer

Assistant executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagra, Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Byatarayanapura Sub Division

PRE MEASUREMENT SHEET

Second And Final

Chainage		Description of Item	Unit	No	Second And Final				Depth (m)	Quantity	Remark
From	To				Length (m)	Breadth					
						B1	B2	Avg B			
Item no.15		Providing, laying, spreading and compacting cushioned stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and directions of the Engineer in charge									
Measurements taken on											
		Quantity Measured in 1st RA Bill									
		Munikemmpama Layout								1301.21	
		1st Cross Road (W0973)									
		From South to North									
0.00	15.00		Cum	1	15.00	5.30	6.00	5.65	0.20	16.95	
5.00	30.00			1	15.00	6.00	5.70	5.85	0.20	17.55	
10.00	45.00			1	15.00	5.70	5.85	5.78	0.20	17.33	
15.00	60.00			1	15.00	5.85	5.45	5.65	0.20	16.95	
20.00	73.10			1	13.10	5.45	5.95	5.70	0.20	14.93	
		Deduction									
						0.45	0.45	0.45	0.20	-0.16	
											</

G of f d d

16.06.2023
 16.06.2023
 16.06.2023



Assistant Engineer

Assistant executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagra, Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Byatarayanapura Sub Division

PRE MEASUREMENT SHEET

Second And Final

Chainage		Description of Item	Unit	No	Length (m)	Breadth			Depth (m)	Quantity	Remark
From	To					B1	B2	Avg B			
Providing and applying primer coat with S S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications and directions of the Engineer in charge.											
Item no. 16											
Measurements taken on		17.08.2012									
		Kuvempu Layout									
		1st Main 3rd Cross (W0989)									
		From South to North									
0.00	3.20	Sqm	1	3.20	6.20	5.50	5.85		18.72		
3.20	15.00		1	11.80	5.50	5.60	5.55		65.49		
15.00	30.00		1	15.00	5.60	5.45	5.53		82.88		
30.00	45.00		1	15.00	5.45	5.40	5.43		81.38		
45.00	60.00		1	15.00	5.40	4.95	5.18		77.63		
60.00	62.70		1	2.70	4.95	4.90	4.93		13.30		
		1st Main Road 2nd Cross Road (W0983)									
		From South to North									
0.00	15.00		1	15.00	6.15	6.00	6.08		91.13		
15.00	30.00		1	15.00	6.00	6.20	6.10		91.50		
30.00	45.00		1	15.00	6.20	6.35	6.28		94.13		
45.00	60.00		1	15.00	6.35	5.45	5.90		88.50		
60.00	62.30		1	2.30	5.45	5.40	5.43		12.48		
		1st Main Road 1st Cross Road (W0973)									
		From South to North									
0.00	15.00		1	15.00	6.40	5.55	5.98		89.63		
15.00	16.00		1	1.00	5.55	5.55	5.55		5.55		
16.00	30.00		1	14.00	6.00	6.10	6.05		84.70		
30.00	45.00		1	15.00	6.10	6.50	6.30		94.50		
45.00	58.30		1	13.30	6.50	6.10	6.30		83.79		
		21th Cross Road (W0969)									
		From North to South									
0.00	15.00		1	15.00	7.15	6.85	7.00		105.00		
15.00	30.00		1	15.00	6.85	6.20	6.53		97.88		
30.00	45.00		1	15.00	6.20	6.80	6.50		97.50		
45.00	60.00		1	15.00	6.80	6.85	6.83		102.38		
60.00	75.00		1	15.00	6.85	6.80	6.83		102.38		
75.00	90.00		1	15.00	6.80	6.80	6.80		102.00		
90.00	105.00		1	15.00	6.80	4.75	5.78		86.63		
105.00	107.70		1	2.70	4.75	4.80	4.78		12.89		
107.70	116.40		1	8.70	5.80	6.00	5.90		51.33		
116.40	120.00		1	3.60	5.30	6.80	6.05		21.78		
120.00	128.70		1	8.70	6.80	7.55	7.18		62.42		
		Connecting Road 2									
		From East to West									
0.00	4.30		1	4.30	7.20	6.95	7.08		30.42		
4.30	15.00		1	10.70	9.00	7.80	8.40		89.88		
15.00	25.30		1	10.30	7.80	7.85	7.83		80.60		

P. K. H. D.



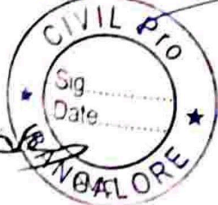
21.08.2012

2118.35

ಸಹಾಯಕ ಅಭಿಯಂತರರು

Dead End (W0665)		From North to South									
0.00	0.00										
15.00	24.90			1	15.00	6.20	6.50	6.15			
				1	9.90	6.50	6.45	6.48		95.25	
										64.10	
1st Main Road (W0612)		From West to East									
0.00	15.00										
15.00	24.30			1	15.00	5.10	5.40	5.25			
25.30	30.00			1	10.30	5.40	6.60	6.00		78.75	
30.00	45.00			1	4.70	6.60	6.30	6.45		61.80	
45.00	47.80			1	15.00	6.30	6.10	6.20		10.12	
47.80	51.10			1	2.80	6.10	5.90	6.00		91.90	
51.10	60.00			1	3.30	5.60	6.20	5.90		16.80	
60.00	75.00			1	8.90	6.20	5.90	6.05		19.47	
75.00	90.00			1	15.00	5.90	5.40	5.65		53.85	
90.00	94.80			1	15.00	5.40	5.90	5.65		84.75	
94.80	105.00			1	4.80	5.90	5.95	5.93		84.75	
105.00	120.00			1	10.20	7.40	7.25	7.33		28.44	
120.00	122.90			1	15.00	7.25	7.20	7.23		74.72	
122.90	125.00			1	2.90	7.20	7.20	7.20		108.38	
125.00	135.00			1	2.10	8.15	9.40	8.78		20.88	
135.00	141.40			1	10.00	12.03	12.25	12.14		18.43	
141.40	145.10			1	6.40	12.25	12.15	12.20		121.40	
145.10	150.00			1	3.70	11.30	11.00	11.15		78.08	
150.00	164.40			1	4.90	8.10	8.10	8.10		41.25	
164.40	180.00			1	14.40	8.10	8.00	8.05		39.69	
180.00	195.00			1	15.60	5.85	6.10	5.98		115.92	
195.00	200.40			1	15.00	6.10	6.20	6.15		93.21	
200.40	203.20			1	5.40	6.20	6.40	6.30		92.25	
203.20	206.40			1	2.80	6.40	4.40	5.40		34.02	
				1	3.20	4.40	1.90	3.15		15.12	
										10.08	
2nd Main Road 2nd Cross Road (W0616)		From North to South									
0.00	15.00			1	15.00	4.90	5.15	5.03		75.38	
15.00	30.10			1	15.00	5.15	5.25	5.20		78.52	
2nd Main Road (W0616)		From East to West									
0.00	15.00										
5.00	17.30			1	15.00	6.40	6.55	6.48		97.13	
7.30	90.80			1	2.30	6.55	6.60	6.58		15.12	
0.80	98.00			1	0.00	0.00	0.00	0.00		0.00	
8.00	105.00			1	7.20	5.45	6.30	5.88		42.30	
15.00	120.00			1	7.00	5.90	5.00	5.45		38.15	
20.00	130.30			1	15.00	5.00	6.70	5.85		87.75	
30.30	135.00			1	10.30	6.70	6.70	6.70		69.01	
15.00	150.00			1	4.70	5.50	5.40	5.45		25.61	
10.00	165.00			1	15.00	5.40	5.30	5.35		80.25	
15.00	180.00			1	15.00	5.30	5.35	5.33		79.88	
10.00	183.40			1	15.00	5.35	5.10	5.23		78.38	
3.40	195.00			1	3.40	5.10	5.00	5.05		17.17	
5.00	210.00			1	11.60	5.60	5.40	5.50		63.80	
0.00	211.40			1	15.00	5.40	6.40	5.90		88.50	
1.40	225.00			1	1.40	6.40	6.40	6.40		8.96	
5.00	240.20			1	13.60	5.90	6.00	5.95		80.92	
0.20	241.70			1	15.20	6.00	5.90	5.95		90.44	
1.70	247.00			1	0.00	0.00	0.00	0.00		0.00	
7.00	255.00			1	5.30	10.15	9.60	9.88		52.34	
5.00	270.00			1	8.00	5.20	5.15	5.18		41.40	
				1	15.00	5.15	6.00	5.58		83.63	

P.K.N.



2869.32

2869.32

00	278.90								
20	285.20								
15.20	30								
20th Cross Road (W0967)									
From North to South									
00	15.00								
00	26.20								
20	10.00								
00	11.50								
18th A Cross Road (W0618)									
From West to East									
00	9.40								
00	15.00								
00	30.00								
00	45.00								
00	60.00								
00	72.30								
2nd Main Road 1st Cross Road (W0977)									
From North to South									
0	12.10								
0	23.30								
0	34.60								
0	45.00								
0	47.80								
0	58.30								
0	60.00								
0	71.63								
1st A Cross Road (W0975)									
From South to North									
15.00									
30.00									
Munikempama Layout 1st Cross Road (W0973)									
From South to North									
15.00									
30.00									
45.00									
60.00									
73.10									
Deduction									
		-1	0.50	0.50	0.50	0.50			-0.25
		-12	0.45	0.45	0.45	0.45			-2.43
		-1	0.60	0.60	0.60	0.60			-0.36
		-1	1.40	0.70	0.70	0.70			-0.98
		-1	2.20	0.60	0.60	0.60			-1.32
		-2	0.90	0.45	0.45	0.45			-0.81
		-1	1.50	1.35	1.35	1.35			-2.03
		-9	0.64						-5.73
			Area=3.142*0.9^2/4=0.636						
		-1	1.77						-1.77
			Area=3.142*1.5^2/4=1.77						
Total Executed Quantity									6713.23
Qty Carried to Summary									6713.23

P. F. Z. F.

CIVIL PRO
Sig. _____
Date _____
SINGAPORE

P. F. Z. F.

Assistant Engineer

Assistance
2000-2001

WORK OF WORK:- Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagara, Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Hyattarayanapura Sub Division
BRUHAT BANGALORE MAHANAGARA PALIKE
PRE MEASUREMENT SHEET
Second And Final

Chainage		Description of Item	Unit	Second And Final		Breadth			Depth (m)	Quantity	Remark
From	To			No	Length (m)	B1	B2	Avg B			
Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F 1 loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & tandem rollers to achieve the desired density, but excluding cost of primer tank coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications and directions of the Engineer in charge.											
Item no.17											
Measurements taken on		17.08.2022									
		Kuvempu Layout									
		1st Main 3rd Cross (W0989)									
		From South to North									
0.00	3.20	Cum	1	3.20	6.20	5.50	5.85	0.05	0.94		
3.20	15.00		1	11.80	5.50	5.60	5.55	0.05	3.27		
15.00	30.00		1	15.00	5.60	5.45	5.53	0.05	4.11		
30.00	45.00		1	15.00	5.45	5.40	5.43	0.05	4.07		
45.00	60.00		1	15.00	5.40	4.95	5.18	0.05	3.88		
60.00	62.70		1	2.70	4.95	4.90	4.93	0.05	0.66		
		1st Main Road 2nd Cross Road (W0983)									
		From South to North									
0.00	15.00	Cum	1	15.00	6.15	6.00	6.08	0.05	4.56		
15.00	30.00		1	15.00	6.00	6.20	6.10	0.05	4.58		
30.00	45.00		1	15.00	6.20	6.35	6.28	0.05	4.71		
45.00	60.00		1	15.00	6.35	5.45	5.90	0.05	4.43		
60.00	62.30		1	2.30	5.45	5.40	5.43	0.05	0.62		
			1st Main Road 1st Cross Road (W0973)								
		From South to North									
0.00	15.00	Cum	1	15.00	6.40	5.55	5.98	0.05	4.48		
15.00	16.00		1	1.00	5.55	5.55	5.55	0.05	0.28		
16.00	30.00		1	14.00	6.00	6.10	6.05	0.05	4.24		
30.00	45.00		1	15.00	6.10	6.50	6.30	0.05	4.73		
45.00	58.30		1	13.30	6.50	6.10	6.30	0.05	4.19		
			21th Cross Road (W0969)								
		From North to South									
0.00	15.00	Cum	1	15.00	7.15	6.85	7.00	0.05	5.25		
15.00	30.00		1	15.00	6.85	6.20	6.53	0.05	4.89		
30.00	45.00		1	15.00	6.20	6.80	6.50	0.05	4.88		
45.00	60.00		1	15.00	6.80	6.85	6.83	0.05	5.12		
60.00	75.00		1	15.00	6.85	6.80	6.83	0.05	5.12		
75.00	90.00		1	15.00	6.80	6.80	6.80	0.05	5.10		
90.00	105.00		1	15.00	6.80	4.75	5.78	0.05	4.33		
105.00	107.70		1	2.70	4.75	4.80	4.78	0.05	0.64		
107.70	116.40		1	8.70	5.80	6.00	5.90	0.05	2.57		
116.40	120.00		1	3.60	5.30	6.80	6.05	0.05	1.09		
120.00	128.70		1	8.70	6.80	7.55	7.18	0.05	3.12		

95.87

R.F.H.R



Assistant Engineer
08-2022

08-2022
08-2022

136.07



11.60	5.90	6.00	5.95	0.05	4.05
15.20	6.00	5.90	5.95	0.05	4.52
0.00	0.00	0.00	0.00	0.05	0.00
5.10	10.15	9.60	9.80	0.05	2.62
8.00	5.20	5.15	5.18	0.05	2.07
15.00	5.15	6.00	5.50	0.05	4.18
8.90	6.00	5.90	5.95	0.05	2.65
6.10	5.55	5.50	5.51	0.05	1.74
2.10	5.15	5.15	5.15	0.05	0.56
20th Cross Road (W0967) From North to South					
15.00	6.80	6.15	5.18	0.05	4.28
11.20	6.15	5.10	5.71	0.05	1.21
3.80	6.35	6.15	6.25	0.05	1.19
3.50	6.15	5.80	5.98	0.05	1.05
18th A Cross Road (W0618) From West to East					
9.40	5.90	5.50	5.70	0.05	2.68
5.60	5.85	5.70	5.78	0.05	1.62
15.00	5.70	5.70	5.70	0.05	4.28
15.00	5.70	5.25	5.48	0.05	4.11
15.00	5.25	5.40	5.33	0.05	3.99
12.30	5.40	6.00	5.70	0.05	3.51
2nd Main Road 1st Cross Road (W0977) From North to South					
12.10	7.60	7.30	7.45	0.05	4.51
11.20	6.70	6.35	6.53	0.05	3.65
0.00	0.00	0.00	0.00	0.05	0.00
10.40	6.20	6.25	6.23	0.05	3.24
2.80	5.50	5.00	5.25	0.05	0.73
10.50	5.60	5.20	5.40	0.05	2.84
1.70	6.20	6.20	6.20	0.05	0.53
11.63	6.20	6.40	6.30	0.05	3.66
1st A Cross Road (W0975) From South to North					
15.00	7.60	7.05	7.33	0.05	5.49
15.00	7.05	7.05	7.05	0.05	5.29
2.20	7.05	7.00	7.00	0.05	0.77
Munikemmpama Layout 1st Cross Road (W0973) From South to North					
15.00	5.30	6.00	5.65	0.05	4.24
15.00	6.00	5.70	5.85	0.05	4.39
15.00	5.70	5.85	5.78	0.05	4.33
15.00	5.85	5.45	5.65	0.05	4.24
13.10	5.45	5.95	5.70	0.05	3.73
Deduction					
-1	0.50	0.50	0.50	0.05	-0.01
-12	0.45	0.45	0.45	0.05	-0.12
-1	0.60	0.60	0.60	0.05	-0.02
-1	1.40	0.70	0.70	0.05	-0.05

104.30

R. V. L. R.
CIVIL Pro
Sig. _____
Date _____
BANGALORE

Assistant Engineer

Assistant executive Engineer

Second and Final Bill									
			-1	2.20	0.60	0.60	0.60	0.05	-0.07
			-2	0.90	0.45	0.45	0.45	0.05	-0.04
			-1	1.50	1.35	1.35	1.35	0.05	-0.10
			-9	0.64				0.05	-0.29

27
01.12.2022

01.12

~~01/12~~

ಹಾಳುಕೆ ಕರ್ನಾಟಕದ ಅಭಿವೃದ್ಧಿ
ಮೈತ್ರಿಪಾಲಕರು ಉಪ ನಿರ್ದೇಶಕ
ಬಿ.ಬಿ.ಎ. ಬೆಂಗಳೂರು-24

P. V. Z.



Assistant Engineer

Assistant executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE
WORK:-Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagra,
Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Byatarayanapura Sub Division
PRE MEASUREMENT SHEET
Second And Final

Chainage		Description of Item	Unit	No	Second And Final		Breadth			Depth (m)	Quantity	Remark
From	To				Length (m)		B1	B2	Avg B			
Item no.18		Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications and directions of the Engineer in charge.										
Measurements taken on		24.08.2022										
		Kuvempu Layout										
		1st Main 3rd Cross (W0989)										
		From South to North										
			Sqm	1	3.20	6.20	5.50	5.85			18.72	
3.20	15.00			1	11.80	5.50	5.60	5.55			65.49	
15.00	30.00			1	15.00	5.60	5.45	5.53			82.88	
30.00	45.00			1	15.00	5.45	5.40	5.43			81.38	
45.00	60.00			1	15.00	5.40	4.95	5.18			77.63	
60.00	62.70			1	2.70	4.95	4.90	4.93			13.30	
		1st Main Road 2nd Cross Road (W0983)										
		From South to North										
15.00	30.00			1	15.00	6.15	6.00	6.08			91.13	
30.00	45.00			1	15.00	6.00	6.20	6.10			91.50	
45.00	60.00			1	15.00	6.20	6.35	6.28			94.13	
60.00	62.30			1	15.00	6.35	5.45	5.90			88.50	
				1	2.30	5.45	5.40	5.43			12.48	
		1st Main Road 1st Cross Road (W0973)										
		From South to North										
15.00	16.00			1	1.00	5.55	5.55	5.55			5.55	
16.00	30.00			1	14.00	6.00	6.10	6.05			84.70	
30.00	45.00			1	15.00	6.10	6.50	6.30			94.50	
45.00	58.30			1	13.30	6.50	6.10	6.30			83.79	
		21th Cross Road (W0969)										
		From North to South										
15.00	30.00			1	15.00	7.15	6.85	7.00			105.00	
30.00	45.00			1	15.00	6.85	6.20	6.53			97.88	
45.00	60.00			1	15.00	6.20	6.80	6.50			97.50	
60.00	75.00			1	15.00	6.80	6.85	6.83			102.38	
75.00	90.00			1	15.00	6.85	6.80	6.83			102.38	
90.00	105.00			1	15.00	6.80	6.80	6.80			102.00	
105.00	107.70			1	2.70	4.75	4.80	4.78			12.89	
107.70	116.40			1	8.70	5.80	6.00	5.90			51.33	
116.40	120.00			1	3.60	5.30	6.80	6.05			21.78	
120.00	128.70			1	8.70	6.80	7.55	7.18			62.42	
		Connecting Road 2										
		From East to West										
4.30	15.00			1	4.30	7.20	6.95	7.08			30.42	
15.00	25.30			1	10.70	9.00	7.80	8.40			89.88	
25.30				1	10.30	7.80	7.85	7.83			80.60	

P.V.B.P.
 CIVIL PRO
 Sig
 Date
 BANGALORE

24.8.2022
 Kuvempu Layout
 21th Cross Road

Dead End (W0965) From North to South								
	1	15.00	6.20	6.50	6.35		95.25	
	1	9.90	6.50	6.45	6.48		64.10	
1st Main Road (W0612) From West to East								
	1	15.00	5.10	5.40	5.25		78.75	
	1	10.30	5.40	6.60	6.00		61.80	
	1	4.70	6.60	6.30	6.45		30.32	
	1	15.00	6.30	6.10	6.20		93.00	
	1	2.80	6.10	5.90	6.00		16.80	
	1	3.30	5.60	6.20	5.90		19.47	
	1	8.90	6.20	5.90	6.05		53.85	
	1	15.00	5.90	5.40	5.65		84.75	
	1	15.00	5.40	5.90	5.65		84.75	
	1	4.80	5.90	5.95	5.93		28.44	
	1	10.20	7.40	7.25	7.33		74.72	
	1	15.00	7.25	7.20	7.23		108.38	
	1	2.90	7.20	7.20	7.20		20.88	
	1	2.10	8.15	9.40	8.78		18.43	
	1	10.00	12.03	12.25	12.14		121.40	
	1	6.40	12.25	12.15	12.20		78.08	
	1	3.70	11.30	11.00	11.15		41.25	
	1	4.90	8.10	8.10	8.10		39.69	
	1	14.40	8.10	8.00	8.05		115.92	
	1	15.60	5.85	6.10	5.98		93.21	
	1	15.00	6.10	6.20	6.15		92.25	
	1	5.40	6.20	6.40	6.30		34.02	
	1	2.80	6.40	4.40	5.40		15.12	
	1	3.20	4.40	1.90	3.15		10.08	
2nd Main Road 2nd Cross Road (W0616) From North to South								
	1	15.00	4.90	5.15	5.03		75.88	
	1	15.10	5.15	5.25	5.20		78.52	
2nd Main Road (W0616) From East to West								
	1	15.00	6.40	6.55	6.48		97.13	
	1	2.30	6.55	6.60	6.58		15.12	
	1	0.00	0.00	0.00	0.00		0.00	
	1	7.20	5.45	6.30	5.88		42.30	
	1	7.00	5.90	5.00	5.45		38.15	
	1	15.00	5.00	6.70	5.85		87.75	
	1	10.30	6.70	6.70	6.70		69.01	
	1	4.70	5.50	5.40	5.45		25.61	
	1	15.00	5.40	5.30	5.35		80.25	
	1	15.00	5.30	5.35	5.33		79.88	
	1	15.00	5.35	5.10	5.23		78.38	
	1	15.00	5.10	5.00	5.05		17.17	
	1	3.40	5.10	5.40	5.50		63.80	
	1	11.60	5.60	6.40	5.90		88.50	
	1	15.00	5.40	6.40	5.90		88.50	
	1	1.40	6.40	6.40	6.40		8.96	
	1	13.60	5.90	6.00	5.95		80.92	
	1	15.20	6.00	5.90	5.95		90.44	
	1	0.00	0.00	0.00	0.00		0.00	
	1	5.30	10.15	9.60	9.88		52.34	
	1	8.00	5.20	5.15	5.18		41.40	
	1	15.00	5.15	6.00	5.58		83.63	
CC Road								
	1	15.00	6.40	6.55	6.48		97.13	
	1	2.30	6.55	6.60	6.58		15.12	
	1	0.00	0.00	0.00	0.00		0.00	
	1	7.20	5.45	6.30	5.88		42.30	
	1	7.00	5.90	5.00	5.45		38.15	
	1	15.00	5.00	6.70	5.85		87.75	
	1	10.30	6.70	6.70	6.70		69.01	
	1	4.70	5.50	5.40	5.45		25.61	
	1	15.00	5.40	5.30	5.35		80.25	
	1	15.00	5.30	5.35	5.33		79.88	
	1	15.00	5.35	5.10	5.23		78.38	
	1	15.00	5.10	5.00	5.05		17.17	
	1	3.40	5.10	5.40	5.50		63.80	
	1	11.60	5.60	6.40	5.90		88.50	
	1	15.00	5.40	6.40	5.90		88.50	
	1	1.40	6.40	6.40	6.40		8.96	
	1	13.60	5.90	6.00	5.95		80.92	
	1	15.20	6.00	5.90	5.95		90.44	
	1	0.00	0.00	0.00	0.00		0.00	
	1	5.30	10.15	9.60	9.88		52.34	
	1	8.00	5.20	5.15	5.18		41.40	
	1	15.00	5.15	6.00	5.58		83.63	
Culvert								
	1	0.00	0.00	0.00	0.00		0.00	
	1	5.30	10.15	9.60	9.88		52.34	
	1	8.00	5.20	5.15	5.18		41.40	
	1	15.00	5.15	6.00	5.58		83.63	

R. J. J. P.
CIVIL PRO
Sig
Date
BANGALORE

	1	8.90	6.00	5.90	5.95	
	1	6.30	5.55	5.50	5.55	52.95
	1	2.10	5.15	5.15	5.15	34.81
						11.24
20th Cross Road (W0967) From North to South						
	1	15.00	6.80	6.15	6.48	
	1	11.20	6.15	5.10	5.71	97.13
	1	3.80	6.15	6.15	6.25	64.12
	1	3.50	6.15	5.80	5.98	23.75
						20.91
18th A Cross Road (W0618) From West to East						
	1	9.40	5.90	5.50	5.70	
	1	5.60	5.85	5.70	5.78	53.58
	1	15.00	5.70	5.70	5.70	32.34
	1	15.00	5.70	5.25	5.48	85.50
	1	15.00	5.25	5.40	5.33	82.13
	1	12.30	5.40	6.00	5.70	79.88
						70.11
2nd Main Road 1st Cross Road (W0977) From North to South						
	1	12.10	7.60	7.30	7.45	90.15
	1	11.20	6.70	6.35	6.53	73.08
	1	0.00	0.00	0.00	0.00	0.00
	1	10.40	6.20	6.25	6.23	64.74
	1	2.80	5.50	5.00	5.25	14.70
	1	10.50	5.60	5.20	5.40	56.70
	1	1.70	6.20	6.20	6.20	10.54
	1	11.63	6.20	6.40	6.30	73.27
1st A Cross Road (W0975) From South to North						
	1	15.00	7.60	7.05	7.33	109.88
	1	15.00	7.05	7.05	7.05	105.75
	1	3.20	7.05	7.00	7.03	15.46
Munikemppama Layout 1st Cross Road (W0973) From South to North						
	1	15.00	5.30	6.00	5.65	84.75
	1	15.00	6.00	5.70	5.85	87.75
	1	15.00	5.70	5.85	5.78	86.63
	1	15.00	5.85	5.45	5.65	84.75
	1	13.10	5.45	5.95	5.70	74.67
Deduction						
	-1	0.50	0.50	0.50	0.50	-0.25
	-12	0.45	0.45	0.45	0.45	-2.43
	-1	0.60	0.60	0.60	0.60	-0.36
	-1	1.40	0.70	0.70	0.70	-0.98
	-1	2.20	0.60	0.60	0.60	-1.32
	-2	0.90	0.45	0.45	0.45	-0.81
	-1	1.50	1.35	1.35	1.35	-2.03
	-9	0.64				-5.73
		Area=3.142*0.9^2/4=0.636				
	-1	1.77				-1.77
		Area=3.142*1.5^2/4=1.77				
Total Executed Quantity						6713.23
Qty Carried to Summary						6713.23

R.K.BD
CIVIL PRO
Sig
Date
BANGALORE

Assistant Engineer
20.02.2022

Assistant Executive Engineer
02/12

BRUHAT BANGALORE MAHANAGARA PALIKE

WORK: Improvements to Roads and Drains at Mariyannapalya, Munikempanna Layout, Bhuvaneshwarinagra,
Dasarahalli Balance Roads and Surrounding Area in Ward No.06 Byatarayanapura Sub Division

PRE MEASUREMENT SHEET

Second And Final

Second And Final									
Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remark
			(m)	B1	B2	Avg B	(m)		
Providing and Constructing dry lean cement concrete mix CC1:5:10 Base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum over a prepared sub-base coarse and fine aggregate conforming to IS: 383-2016, aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications and directions of the Engineer in charge.									
Quantity Measured in 1st RA Bill								317.00	
Vishwarathna #951 House Beside Road (East To West)	Cum	1	15.00	5.20	5.70	5.45	0.15	12.26	
		1	15.00	5.70	6.00	5.85	0.15	13.16	
		1	7.80	6.00	6.30	6.15	0.15	7.20	
Sri Laxmi Narayana opp Road (South To North)		1	15.00	2.70	2.20	2.45	0.15	5.51	
		1	1.90	2.20	2.15	2.18	0.15	0.62	
		1	13.10	2.45	2.90	2.68	0.15	5.26	
		1	15.00	2.90	2.85	2.88	0.15	6.47	
		1	15.00	2.85	2.85	2.85	0.15	6.41	
		1	1.50	2.85	2.80	2.83	0.15	0.64	
7 star Multi Cuisine Beside Road (South To North)		1	15.00	3.55	3.25	3.40	0.15	7.65	
		1	15.00	3.25	3.10	3.18	0.15	7.14	
		1	1.70	3.10	2.80	2.95	0.15	2.08	
Kuvempu Layout 2nd main Road East To West		1	12.20	5.10	5.20	5.15	0.15	9.42	
		1	2.80	4.60	4.70	4.65	0.15	1.95	
		1	15.00	4.70	4.80	4.75	0.15	10.69	
		1	7.00	4.80	4.60	4.70	0.15	4.94	
		1	8.00	5.35	5.10	5.23	0.15	6.27	
		1	15.00	5.10	4.90	5.00	0.15	11.25	
		1	12.00	4.90	5.40	5.15	0.15	9.27	
DEDUCTION									
Chambers	-10		0.45	0.45	0.45	0.45	0.15	-0.30	
Manhole 0.75dia	-3		0.44				0.15	-0.20	
(3.14*0.75*0.75)/4=0.44									
Total Executed Quantity								444.69	
Qty Carried to Summary								444.69	

R.V.L.P.



Assistant Engineer
19.06.2023

Assistant Executive Engineer